

AC194-M12A Series

Compact Multipurpose Accelerometer, 4 Pin M12 Connector, 100 mV/g, ±10%



VIBRATION ANALYSIS HARDWARE



Product Features

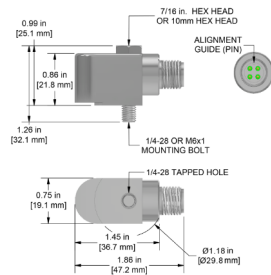
High Performance in an Affordable, Side Exit, Compact Sensor

Very Low Noise and Superior RF Immunity

- ▶ 100 mV/g Sensitivity, ± 10%
- ▶ ± 80g Dynamic Range
- ▶ 4 Pin M12 Connector

AC194-M12A 4 Pin Connector

Connector Pin	Polarity
1	(+) Signal/Power
2	(-) Common
3	Not Used
4	Not Used



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC194-M12A	M/AC194-M12A	Environmental		
Sensitivity (±10%)	100 mV/g		Operating Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±3dB)	30-600,000 CPM	0,5-10000 Hz	Maximum Shock Protection		5,000 g, peak
Dynamic Range		± 80 g, peak *V _{source} ≥ 22V, 12V _{bias}	Electromagnetic Sensitivity		CE
			Sealing		Welded, Hermetic
			Submersible Depth	200 ft.	60 m
			SIL Rating		SIL 2
Electrical			Physical		
Settling Time	<2 Seconds		Sensing Element		PZT Ceramic
Voltage Source (IEPE)	18-30 VDC		Sensing Structure		Shear Mode
Constant Current Excitation	2-10 mA		Weight	3.3 oz	93 grams
Spectral Noise @ 10 Hz	8 µg/√Hz		Case Material		316L Stainless Steel
Spectral Noise @ 100 Hz	4 µg/√Hz		Connector (Non-Integral)		4 Pin M12
Spectral Noise @ 1000 Hz	2 µg/√Hz		Resonant Frequency	1,380,000 CPM	23000 Hz
Output Impedance	<100 ohm		Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Bias Output Voltage	10-14 VDC			1/4-28	M6x1
Case Isolation	>10 ⁸ ohm				